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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/24/2003	Clifford C. Johnson	JOHN-023	8210		
7590 01/07/2005			EXAMINER		
Michael S. Neustel			NGUYEN, PHUNG		
Suite No.4			PAPER NUMBER		
2534 South University Drive Fargo, ND 58103					
	09/24/2003 590 01/07/2005 eustel iversity Drive	09/24/2003 Clifford C. Johnson  590 01/07/2005 eustel  iversity Drive	09/24/2003         Clifford C. Johnson         JOHN-023           590         01/07/2005         EXAM           eustel         NGUYEN           iversity Drive         ART UNIT		

Please find below and/or attached an Office communication concerning this application or proceeding.

				CK			
Office Action Summary		Application	on No.	Applicant(s)			
		10/671,22	26	JOHNSON, CLIFFORD C.			
		Examiner		Art Unit			
		Phung T N	<u> </u>	2632			
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	correspondence ad	dress		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may be patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no ever reply within the state iod will apply and wi atute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely the mailing date of this or D (35 U.S.C. § 133).			
Status				•			
1)	Responsive to communication(s) filed on 24	4 September 2	2003.				
		2b)⊠ This action is non-final.					
3)	,			secution as to the	e merits is		
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are with the claim(s) <u>20</u> is/are allowed.  Claim(s) <u>1,2,11 and 12</u> is/are rejected.  Claim(s) <u>3-10 and 13-19</u> is/are objected to.  Claim(s) are subject to restriction and	drawn from co					
Applicat	ion Papers						
10)	The specification is objected to by the Exam The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the continuous the oath or declaration is objected to by the	accepted or b) the drawing(s) b rection is requir	oe held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF			
Priority (	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure See the attached detailed Office action for a light	ents have bee ents have bee riority docume eau (PCT Rul	n received. In received in Applicati ents have been receive e 17.2(a)).	on No ed in this National	Stage		
				-			
Attachmer	• •						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da				
3) X Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/er No(s)/Mail Date 12/27/2004.	(08)	5) Notice of Informal P 6) Other:		O-152)		

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwamoto et al. (U.S. Pat. 6,666,784) in view of Stevenson (U.S. Pat. 5,167,289).

Regarding claim 1: Iwamoto et al. disclose piston rod piston detector autotensioner and belt tension adjuster comprising a measurement unit attachable to a cylinder shaft of a hydraulic cylinder, wherein said measurement unit measures an extended position of a cylinder shaft (figure 1, col. 5, lines 6-17, col. 7, lines 42-45). Iwamoto et al. disclose a display unit (col. 15, lines 44-45) but do not teach a display unit with a plurality of display lights in communication with said measurement unit, wherein said display lights indicate an extended position of a cylinder shaft as claimed. However, Stevenson discloses air spring load monitoring system comprising a display unit with a plurality of display lights in communication with the mearsurement unit (figures 2 and 3, col. 5, lines 26-35). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teaching of Stevenson in the system of Iwamoto et al. because they both teach the monitoring system which includes a display unit. It is seen that Stevenson's teaching of a display unit with a plurality of display lights would enhance the system of Iwamoto et al. in order to prevent a mental calculation or other interpretation of alphanumeric data.

Regarding claim 2: Stevenson teaches an indicia adjacent each of said display lights indicating a position measurement (col. 5, lines 50-61). Plus the consideration of claim 1 above.

Regarding claim 11: All the claim subject matter is already discussed in respect to claim 1 above. Iwamoto et al. inherently teach the measurement unit 17 including the housing bracket (fig. 1, col. 5, lines 6-8).

Regarding claim 12: Refer to claim 2 above.

### Allowable Subject Matter

3. Claims 3-10, and 13-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 20 is allowed.

The following is an examiner's statement of reasons for allowance:

Applicant has claimed uniquely distinct combination of features in the instant invention. The combination includes "a housing unit having a tubular structure; a plurality of contact members attached within said housing unit, wherein said contact members are electrically connected to said display lights; a measurement shaft slidably extending from within said housing unit and attachable to a cylinder shaft of a hydraulic cylinder; and a main contact attached to said measurement shaft that engages one or more of said contact members based upon a position of said measurement shaft". These features are not found or suggested in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Kurth [U.S. Pat. 6,321,781] discloses apparatus for monitoring the valve stroke of an electromagnetically actuated valve.
- b. Zimmermann [U.S. Pat. 5,523,684] discloses electronic solenoid control apparatus and method with hall effect technology.
  - c. Kimura et al. [U.S. Pat. 6,442,862] disclose displacement measuring apparatus.
  - d. Katogi et al. [U.S. Pat. 4,752,771] disclose an electronic instrument panel.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung T Nguyen whose telephone number is 571-272-2968. The examiner can normally be reached on 8:00am-5:30pm Mon thru. Friday, with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on 571-272-2964. The fax numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

Art Unit: 2632

Phung Nguyen

Date: December 27, 2004